



Richard LaFranchi
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Skills:

- * Infrastructure: Kubernetes, Helm, Terraform, AWS, Gitlab CI/CD
- Backend: Java, Ruby, Python, SQL, Kafka
- Frontend: Typescript, JavaScript, Vue.js, Angular, React

Education:

- * Master of Computer Science 2019
@ Colorado State University, Fort Collins, CO
- * BS Civil Engineering 2006
@ University of Colorado, Boulder, CO

Work:

- * Principal Software Engineer II, Charter Communications 2015–present
 - Built an application that implements a standard data collection protocol called IPDR (Internet Protocol Detail Record) using Java and Kubernetes designed to collect data from thousands of devices and handle 30 TB/day of data that is offloaded to AWS S3 as Parquet files.
 - Leveraged Terraform to automate the Software and Infrastructure deployment of a multi-service application used for optimizing Charter's network capacity.
 - Developed data pipelines on a platform that manages dozens of Petabytes of Charter's network data using standard Python tools.
 - Designed and Developed a logging architecture that leverages Kafka to aggregate log data across 700 internal testing servers.
 - Ported a legacy Silverlight client over to a modern web application using Angular.
 - Increased usability of an interactive test plan file tree using Vue.js and Ruby on Rails for an internal test management system.
- * Web Developer, Freelance 2011–2015
 - Built and Maintained WordPress sites for various small businesses and non-profit organizations.
 - Increased communication between office and field personnel by developing a project management system for a land surveying company using Ruby on Rails.

Projects:

- * Lightspeed Finance
 - A personal finance budgeting tool with AI capabilities.
 - <https://lightspeed.finance>
- * Symbol Tax
 - A Cryptocurrency capital gains tax calculator.

- <https://symbol.tax>
- * Systematic Test Generation for Augmented Reality Applications
 - A masters project that leveraged known techniques for automating test generation in GUI applications and applied them to Augmented Reality.
 - US Patent No. 11,080,939
- * Vue on Rails - github.com/vueonrails
 - A book that discusses integration options through examples for Vue.js and Ruby on Rails
 - <https://www.apress.com/us/book/9781484251157>
- * System Tester - github.com/rlafranchi/system-tester
 - A chrome extension for generating Ruby on Rails system tests.
- * Nimiq Funder - github.com/rlafranchi/nimiq-funder
 - Funding websites with Nimiq cryptocurrency
- * Statixite - github.com/rlafranchi/statixite
 - A static website management tool